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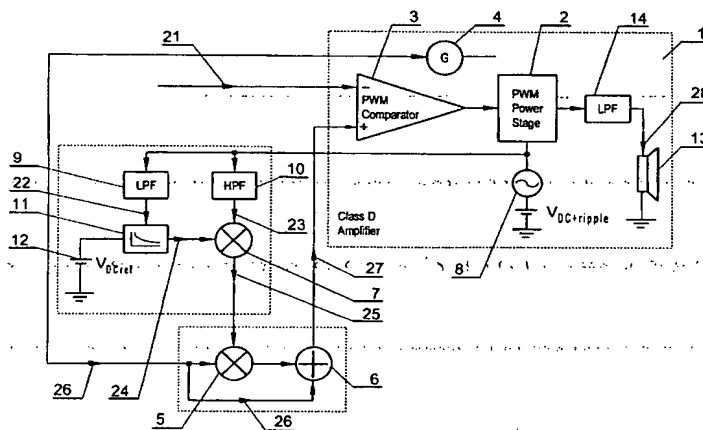
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(54) Title: CLASS D ELECTROACOUSTIC AMPLIFIER AND METHOD FOR COMPENSATION OF POWER SUPPLY VOLTAGE INFLUENCE ON OUTPUT AUDIO SIGNAL IN CLASS D ELECTROACOUSTIC AMPLIFIER



(57) Abstract: In a class D electroacoustic amplifier (1) without feedback loop containing a supply voltage source (8), an amplifier-low-pass filter (14), a power stage (2) controlled by a pulse width modulated signal, a saw-shaped voltage generator (4) and a comparator (3), to one of which inputs an audio signal is sent, while its second input is connected to the adder (6) of the compensation circuit of supply voltage influence on the output audio signal, to which a voltage from a reference voltage source is sent, a low-pass filter (9) and a high-pass filter (10) are connected to the supply voltage source (8), and the reference voltage source (12) is connected to an inverting circuit (11), whose input is connected to the low-pass filter (9) output, while the high-pass filter (10) output and the output of the inverting circuit (11) are connected to a multiplier (7), whose output is connected to the input of another multiplier (5), whose second input is connected to the saw-shaped voltage generator (4), and the multiplier (5) output is connected to one input of the adder (6) whose second input is connected to the saw-shaped voltage generator (4).

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